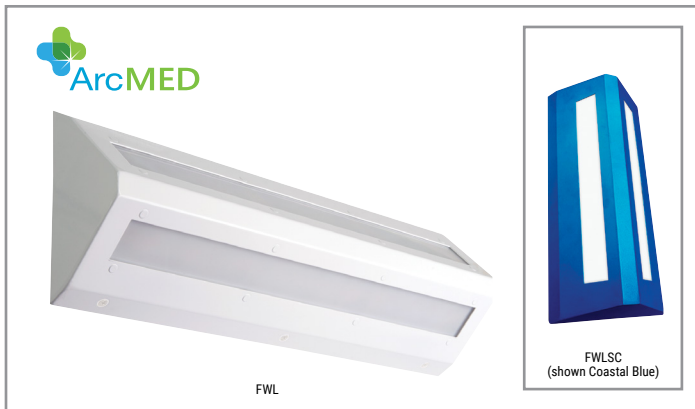


Project		Catalog #		Type	
Prepared by		Notes		Date	



Fail-Safe



FWL FWLDL FWLSC

Behavioral Health / High Abuse
Vertical Wall Sconce
Horizontal Wall Mount
ADA Compliant

Typical Applications

Schools • Mental Health Facilities • Stairwells • Corridors • Detention Centers • Public Transportation Areas • Behavioral Health • Patient Rooms • Dorm Rooms

Interactive Menu

- Order Information [page 2](#)
- Nominal Input Watts/Delevered Lumens [page 4](#)
- Product Specifications [page 5](#)
- Product Warranty

Product Certification



Product Features

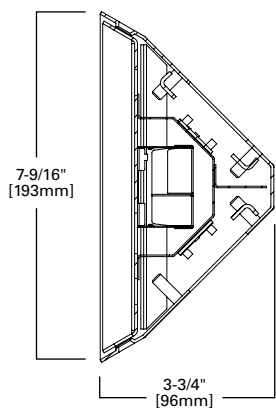


16 Architectural Colors
See pages 2 and 3 for details

Top Product Features

- ADA compliant
- Ceiling or wall mount. Horizontal or vertical on the wall.
- Available in multiple lengths; from 16" to 48"
- Up / down or downlight only optical distributions
- Impact resistant polycarbonate outer lenses
- 16 architectural color finishes available, powder coat, satin finish
- Options to meet Build America, Buy America and Buy American domestic preference requirements

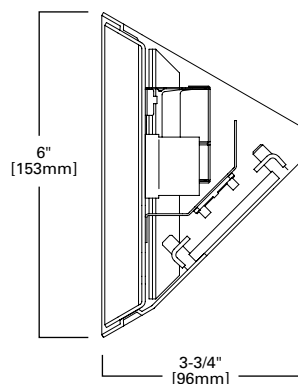
FWL (horizontal)



Up/Down

Available 18", 24", 48" lengths

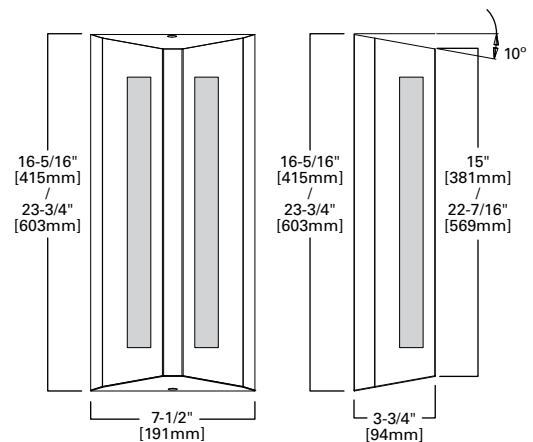
FWLDL (horizontal)



Downlight only

Available 18", 24", 48" lengths

FWLSC Sconce (vertical)

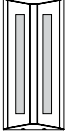


Available 18", 24" lengths

[additional product diagrams](#)

FWLSC Sconce - Order Information

SAMPLE ORDER NUMBER: FWLSC-D-16-UNV-75-30-NP2/84-DBG
 BAA-FWLSC-N-24-UNV-150-27-OPL/86-SLG

Domestic Preferences ⁽¹⁾	Series	Thickness (Front Cover)	Height	Voltage	Lumen Output	Color Temperature
[Blank] =Standard BAA =Buy American Act BABA =Build America Buy America Act	FWLSC=FWL Sconce 	D=16ga. Steel X=14ga. Steel	16=16" Nominal 24=24" Nominal	UNV=120V-277V	16" height 50=500 Lumens 75=750 Lumens 100=1000 Lumens 125=1250 Lumens 150=1500 Lumens 24" height 100=1000 Lumens 125=1250 Lumens 150=1500 Lumens 200=2000 Lumens	27=2700K 30=3000K 35=3500K 40=4000K 50=5000K *90 CRI standard

Lens Inner	Lens Outer (Clear)	Driver	Color / Finish	Options	
80=Pattern 12 Acrylic, 0.125" Thick OPL=Opal Acrylic, 0.080" Thick NP1=Natural Pattern 1, 0.080" Thick NP2=Natural Pattern 2, 0.080" Thick NP3=Natural Pattern 3, 0.080" Thick	84=Clear Polycarbonate, 0.125" Thick 86=Clear Polycarbonate, 0.25" Thick	[Blank] =Driver, 1% dimming (low voltage dimming leads connected)	Standard Colors. [Blank] =Matte White AM=Antimicrobial Matte White GW=Gloss White DP=Dark Platinum, Satin Finish BK=Black, Satin Finish BZ=Bronze	Architectural Colors. TCB=Terra Cotta Brick MRR=Merlot Red PMK=Pumpkin GLD=Goldenrod SGG=Sage Green EVG=Evergreen CBL=Coastal Blue NTB=Night Blue UMB=Ultramarine Blue PPV=Purple Violet NTN=Neutral Tan DBG=Dark Beige CRM=Cream SLG=Silver Gray OLG=Olive Green MHB=Mahogany Brown RALxxxx=RAL Number Color ⁽²⁾	NTP=Non-tamper Resistant Fasteners (Phillips Head) IP6X=IP Rated, Dust Ingress Protection. No dust can enter and affect it's operation.

Notes: (1) Only product configurations with these prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or the Build America Buy America Act (BABA). BABA is the minimum Government compliance requirement for the Build America Buy America standards which is part of the Infrastructure and Investment Jobs Act (IIJA). Individual Government Agencies may have more stringent compliance standards. Please refer to [DOMESTIC PREFERENCES](#) website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements. (2) Replace XXXX with unique 4 digit RAL number. Leave blank when choosing "SSB" material for front cover.

Fail-Safe Standard Colors



Gloss White (GW)
 Matte White (BLANK)
 Matte White Anti-microbial (AM)

Fail-Safe Architectural Colors



Terra Cotta Brick (TCB) RAL 3020
 Merlot Red (MRR) RAL 3005
 Pumpkin (PMK) RAL 2004
 Goldenrod (GLD) RAL 1003
 Sage Green (SGG) RAL 6019
 Evergreen (EVG) RAL 6001
 Coastal Blue (CBL) RAL 5015
 Night Blue (NTB) RAL 5022

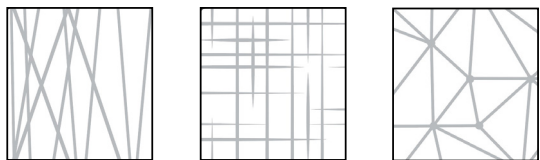


Black (BK)
 Dark Platinum (DP)
 Bronze (BZ)



Ultramarine Blue (UMB) RAL 5002
 Purple Violet (PPV) RAL 4007
 Neutral Tan (NTN) RAL 7032
 Dark Beige (DBG) RAL 7006
 Cream (CRM) RAL 9001
 Silver Gray (SLG) RAL 7001
 Olive Green (OLG) RAL 6003
 Mahogany Brown (MHB) RAL 8016

Natural Pattern Lenses



NP1 Natural Pattern 1 Grasses
 NP2 Natural Pattern 2 Weave
 NP3 Natural Pattern 3 Geometric

Natural Patterns available with FWL, FWLDL, FWLSC

FWL and FWLDL Horizontal Wall Mount - Order Information

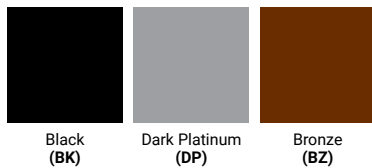
SAMPLE ORDER NUMBER: FWL-D-2-UNV-STD/STD-35-80/86-ED1D2-CRM
 FWLDL-D-4-UNV-STD-35-80/84-ED1D1-BZ

Domestic Preferences ⁽¹⁾	Series	Front Cover Thickness	Length	Voltage	Up Light Level (FWL only)	Down Light Level	Color Temperature ⁽⁶⁾															
[Blank] =Standard BAA =Buy American Act BABA =Build America Buy America Act	FWL =Wall or Ceiling FWLDL =Wall or Ceiling, Downlight Only	D =16ga. Steel X =14ga. Steel	18 =18" 2=2' ⁽²⁾ 4=4'	UNV =120V-277V	LO =Low Output STD =Standard Output HI =High Output	LO =Low Output STD =Standard Output HI =High Output	27 =2700K 30 =3000K 35 =3500K 40 =4000K 50 =5000K *90 CRI standard															
						<table border="1"> <thead> <tr> <th colspan="3">Nominal Lumens / Ft.</th> </tr> <tr> <th></th> <th>FWL</th> <th>FWLDL</th> </tr> </thead> <tbody> <tr> <td>LO</td> <td>900</td> <td>450</td> </tr> <tr> <td>STD</td> <td>1200</td> <td>600</td> </tr> <tr> <td>HI</td> <td>1500</td> <td>750</td> </tr> </tbody> </table>	Nominal Lumens / Ft.				FWL	FWLDL	LO	900	450	STD	1200	600	HI	1500	750	
Nominal Lumens / Ft.																						
	FWL	FWLDL																				
LO	900	450																				
STD	1200	600																				
HI	1500	750																				

Inner/Outer Lens ⁽³⁾	Driver	Circuits	Color		Options
Inner Lens ⁽³⁾ 80 =0.125" Pattern 12 Acrylic OPL =Opal Acrylic, 0.080" Thick NP1 =Natural Pattern 1 NP2 =Natural Pattern 2 NP3 =Natural Pattern 3 Outer Lens ⁽³⁾ 84 =0.125" Clear Polycarbonate 86 =0.25" Clear Polycarbonate	ED1D =Electronic Driver, 0-10V Dimming 1%	1=1 Circuit 2=2 Circuits ⁽⁴⁾	Standard Colors [Blank] =Matte White AM =Antimicrobial Matte White GW =Gloss White Paint DP =Dark Platinum, Satin Finish BK =Black, Satin Finish BZ =Bronze	Architectural Colors TCB =Terra Cotta Brick MRR =Merlot Red PMK =Pumpkin GLD =Goldenrod SGG =Sage Green EVG =Evergreen CBL =Coastal Blue NTB =Night Blue UMB =Ultra Marine Blue PPV =Purple Violet NTN =Neutral Tan DBG =Dark Beige CRM =Cream SLG =Silver Grey OLG =Olive Green MHB =Mahogany Brown RALxxxx =RAL Number Color ⁽⁵⁾	Other Options NTP =Non-tamper Proof Fasteners (Phillips-head screws) IP6X =IP Rated, Dust Ingress Protection. No dust can enter and affect it's operation.
* Order as "inner lens/outer lens". Example: OPL/84					

Notes: (1) Only product configurations with these prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or the Build America Buy America Act (BABA). BABA is the minimum Government compliance requirement for the Build America Buy America standards which is part of the Infrastructure and Investment Jobs Act (IIJA). Individual Government Agencies may have more stringent compliance standards. Please refer to [DOMESTIC PREFERENCES](#) website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements. (2) FWLDL 2' available with STD or HI settings only. (3) Specified as "Inner / Outer" Example logic: 80/84. (4) Two circuits not available on FWLDL. (5) Replace XXXX with unique 4 digit RAL number. Leave blank when choosing "SSB" material for front cover. (6) 80 CRI standard. Specify "90" option for 90 CRI.

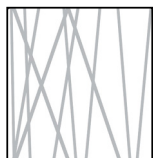
Fail-Safe Standard Colors



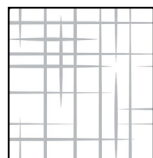
Fail-Safe Architectural Colors



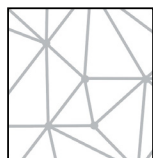
Natural Pattern Lenses



NP1 Natural Pattern 1
Grasses



NP2 Natural Pattern 2
Weave



NP3 Natural Pattern 3
Geometric

Natural Patterns available with FWL, FWLDL, FWLSC

[View IES files](#)

Nominal Input Watts/Delivered Lumens (3500K)

FWL			
Length	Output Level	Nominal Input Watts	Nominal Delivered Lumens
18"	Low	21.2	1098
	Standard	26.6	1373
	High	29.8	1533
2'	Low	31.8	1647
	Standard	42.5	2196
	High	52.9	2745
4'	Low	63.4	3295
	Standard	85.0	4416
	High	105.8	5514

FWLDL			
Length	Output Level	Nominal Input Watts	Nominal Delivered Lumens
18"	Low	10.6	549
	Standard	13.3	686
	High	15.9	824
2'	Low	15.9	824
	Standard	21.3	1098
	High	26.5	1373
4'	Low	31.8	1647
	Standard	42.5	2196
	High	52.9	2745

* Lens tested was "86"; 0.25" clear polycarbonate

* Nominal input wattage values include LED voltage, drive current and typical driver efficiency. Refer to LM 79 data/photometric files for exact delivered lumen values and input wattage. Values in table are nominal values only.

FWLSC			
Length	Lumen Output	Input Watts	Lumens Per Watt (LPW)
16"	429.9	8.9	48.3
	645	13.4	48.1
	860	17.9	48.0
	1075	22.4	48.0
	1297	26.8	48.4
24"	860	18.0	47.8
	1075	21.6	49.8
	1290	26.4	48.9
	1720	34.5	49.9

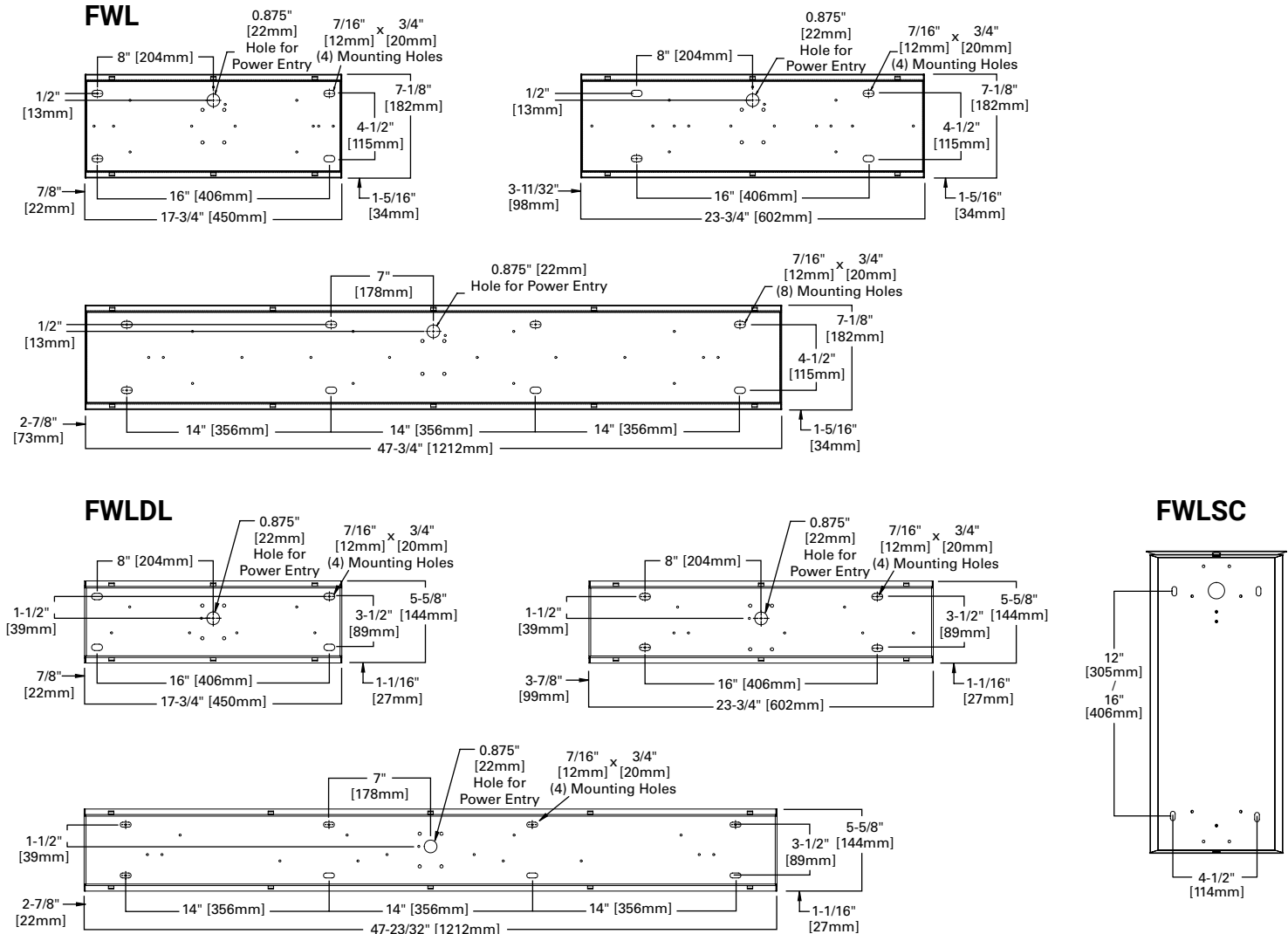
* Tested with 0.080 Opal Acrylic, 0.125" Clear Polycarbonate lens.

** Values above are estimates only. Pending actual photometric test results.

MENTAL HEALTH COMPLIANT FEATURES / BENEFITS

Aesthetics	Construction / Versatility	Patient Safety / Robustness	
Architectural matte white paint, standard	Available in multiple lengths and lumen packages	Ligature resistant	IK10 impact resistant, 14ga. steel
16 architectural colors available. Powder coat, satin finish	Ceiling or wall mount	Flush fasteners, standard	Multiple attachment points, 12" spacing minimum
All countersunk fasteners on the visible surface, painted to match the front cover	Heavy gauge 14ga. or 16ga. steel	Tamper resistant, T20 Torx fasteners	Clear outer polycarbonate lens, 0.125" thickness minimum

Dimensional and Mounting Details



Product Specifications

Housing and Backpan

- Clamshell design; die-formed heavy gauge steel body construction
- One-piece, seamless, doorless housing (front cover)
- Continuous welded and ground ends
- Maximum impact resistance and prevention of unauthorized fixture penetration
- Dedicated up/down illumination chambers (FWL only)
- Dedicated backpan mounts with multi-point mounting
- Housing attaches to the backpan with tamper resistant screws
- Stainless steel safety cables secure housing to backpan (FWL, FWLDL)
- Electrostatically applied, matte white powder coat finish; gloss white, silver, black, bronze, dark platinum available; Custom colors available (supply RAL number, paint chips, or paint manufacturer catalog number). 16 architectural colors available; powder coat, satin finish

Fasteners

- Stainless steel tamper-resistant T20 TORX® screws with center pin reject standard. External fasteners painted to match outer fixture surface.

Lens and Lens Retention

- Inner lenses include Pattern 12 prismatic acrylic, opal acrylic, or 3 "natural patterns" - NP1, NP2, or NP3
 - Lens secured by thru-studs
 - Internal steel hold-downs to secure lens
- ### LEDs
- Available in 3000K, 3500K, 4000K and 5000K; 80 CRI minimum. 90 CRI standard
 - Choice of Standard, Low or High illumination levels (FWL, FWLDL)
 - Projected life is 50,000 hours at 70% lumen maintenance

Electrical

- Electronic driver 120-277V, dimming driver standard
- 0-10V dimming down to 1%
- Non-dimming available

Compliance

- cULus listed for damp locations
- Meets IK10 when specified in the ordering catalog logic

BABA Domestic Preference Compliance

- This Cooper product is manufactured in the US and meets the BABA cost of components rule. To verify a configured product with specific accessories and options meets BABA Domestic Preference Requirements; submit this catalog number to Cooper Lighting Quotation team for validation by our Engineering and Manufacturing teams. Our BABA designation is based on the minimum compliance requirement for BABA. Individual Government Agencies may have more stringent compliance standards. Please refer to the [DOMESTIC PREFERENCES](#) website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

Warranty

- Five year limited warranty on LEDs and Electrical, consult website for details.
www.cooperlighting.com/legal

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